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PHASE II - SENIOR ADULT CENTER AND AQUATIC COMPLEX CONCESSION

CITY OF
BRENTWOOD

195 GRIFFITH LN.
BRENTWOOD, CA

SENIOR ADULT CENTER
C.I.P. #522-52280

AQUATIC COMPLEX
CONCESSION
C.I.P. #522-52300

REVISIONS

ARCH PROJECT NO: 641.02

DRAWN BY: STAFF

DRAWING SCALE:

CONSTRUCTION DOCUMENTS

DECEMBER 20, 2007

SHEET TITLE

BLDG B -
FIRE ALARM
PLAN,
DEVICES AND
SCHEDULES

SHEET NUMBER

E-B2.1

NEW FIRE ALARM SYSTEM DESCRIPTION:

1. NEW FIRE ALARM BOOSTER POWER SUPPLY SYSTEM IS A FULLY AUTOMATIC SYSTEM AND TO BE CONNECTED TO EXISTING FIRE ALARM CONTROL PANEL.
2. NEW INITIATING AND NOTIFICATION DEVICE FIRE ALARM CIRCUITS ARE ADDRESSABLE AND WIRED AS CLASS B CIRCUIT.

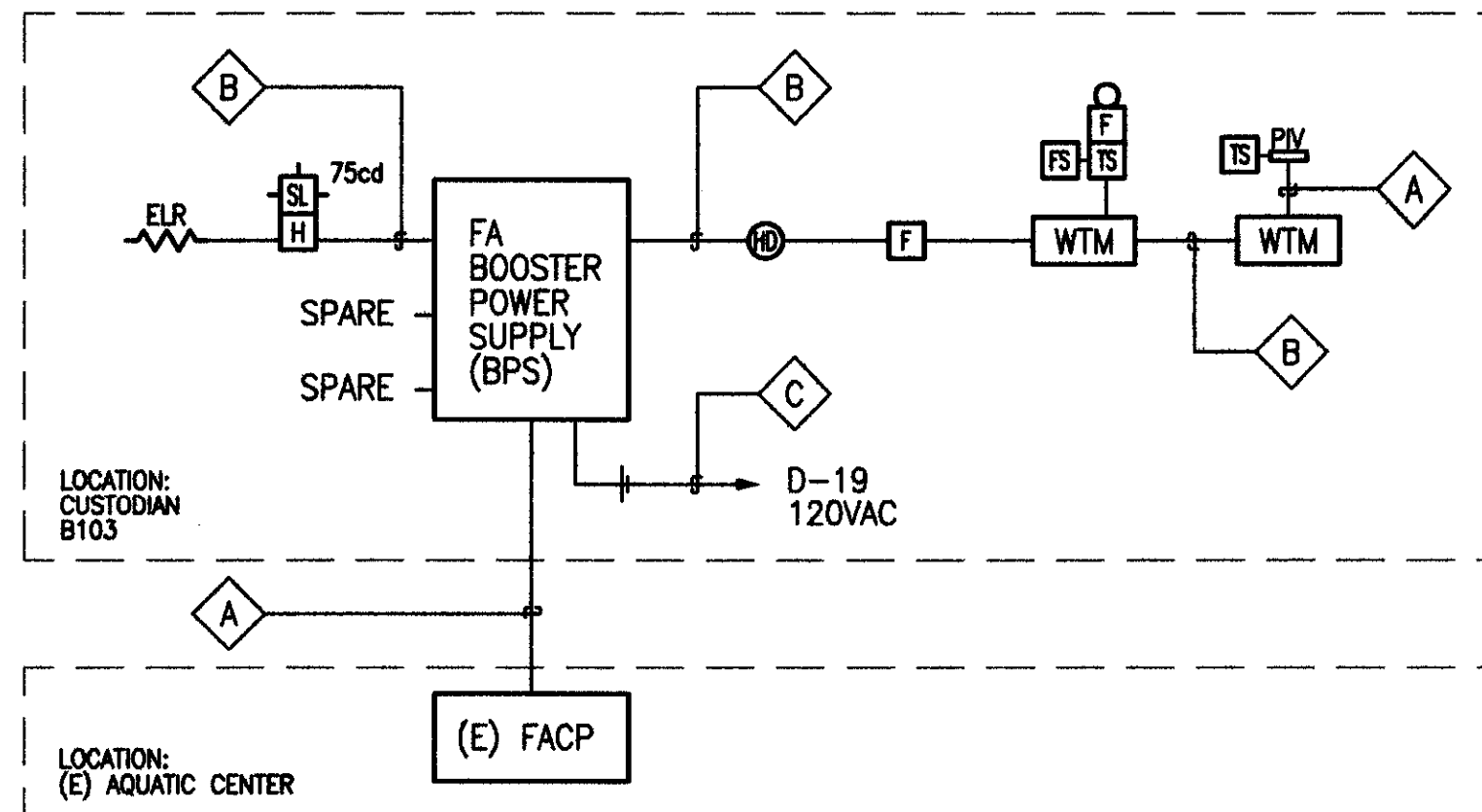
GENERAL ELECTRICAL NOTES:

1. COMPLIANCE WITH FEDERAL, STATE AND LOCAL WIRING CODES IS REQUIRED INCLUDING NFPA 2001 AND NFPA 70.
2. INPUT POWER TO ALARM PANEL(S) TO BE 120 VAC, ON A DEDICATED CIRCUIT THAT DOES NOT DE-ENERGIZE UPON SYSTEM ALARM OR EPO ACTIVATION ETC. THAT CIRCUIT SHALL BE LABELED AT THE ELECTRICAL PANEL, AND BE PROVIDED WITH A LOCKOUT. THE ELECTRICAL PANEL AND CIRCUIT NUMBER SHALL BE NOTED AT THE FIRE ALARM CONTROL PANEL. THIS WIRING AND TERMINATION IS TO BE PROVIDED BY OTHERS, AND NOT TO BE RUN IN THE SAME CONDUIT AS ALARM PANEL DEVICES.
3. A SEPARATE EARTH GROUND MUST BE INSTALLED. PANEL NEUTRAL OR CONDUIT GROUND IS NOT ACCEPTABLE. THIS WIRING IS TO BE PROVIDED BY OTHERS.
4. ALL 120 VAC WIRING TO BE KEPT SEPARATE FROM ALL FIRE ALARM CIRCUITS.
5. ALL AUDIBLE/VISUAL DEVICES ARE TO BE PLACED SO THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" FROM THE FLOOR.
6. MANUAL RELEASE AND ABORT STATIONS ARE TO BE MOUNTED 48" FROM THE FINISHED FLOOR AS MEASURED FROM THE CENTER OF THE DEVICE.
7. NO BRANCH CIRCUITS ALLOWED, EXCEPT WHERE NOTED.
8. CONDUIT TO BE EMT WITH SET SCREW, OR COMPRESSION FITTINGS. ALL JUNCTION BOX COVERS ARE TO BE LABELED "FA" WITH A PERMANENT MARKER.
9. EXACT LOCATIONS OF DETECTORS AND CONTROL EQUIPMENT SHALL BE DETERMINED IN THE FIELD. EXACT PLACEMENT MAY BE SUPERSEDED BY FIXTURES, DUCTS, TRAYS ETC. DETECTORS SHALL BE LOCATED A MINIMUM OF 3 FT. FROM ANY AIR SUPPLY DIFFUSER ETC. AND A MINIMUM OF 4 INCHES FROM A SIDEWALL TO THE NEAR EDGE OF THE DETECTOR.
10. POLARITY SHOULD BE OBSERVED ON ALL DEVICES.
11. ANY WIRING THAT IS REQUIRED FOR EQUIPMENT SHUTDOWNS SUCH AS AIR HANDLERS, SHUNT TRIPS ETC. IS TO BE PROVIDED BY OTHERS, AND NOT TO BE RUN IN THE SAME CONDUIT AS ALARM PANEL DEVICES.
12. ANY WIRING THAT IS REQUIRED FOR MONITORING OF THE ALARM PANEL(S) SUCH AS LIFE SAFETY EQUIPMENT OR OFFSITE MONITORING COMPANIES IS TO BE PROVIDED BY OTHERS.
13. ANY RELAY ENCLOSURE LOCATIONS SHOULD BE COORDINATED ON JOB SITE.
14. PANEL AND DEVICES ARE EQUIPPED WITH SCREW TYPE CAGE CLAMP TERMINATIONS OR SADDLE CLAMPS. WIRE SPADE CONNECTORS NOT NEEDED EXCEPT FOR MANUAL RELEASE STATIONS.
15. EOL RESISTORS SHALL NOT BE SPliced TO FIELD WIRING.
16. CHECK FOR WIRE TO WIRE SHORTS AND SHORTS TO GROUND, NONE ARE ACCEPTABLE.
17. ALL DEVICE WIRING TO BE LABELED.
EXAMPLE: WIRES GOING INTO A DEVICE SHALL BE LABELED IN, WIRES LEAVING THE DEVICE SHALL BE LABELED OUT. SEE DRAWINGS FOR DETAILS.

FIRE ALARM MATRIX / SEQUENCE OF OPERATION

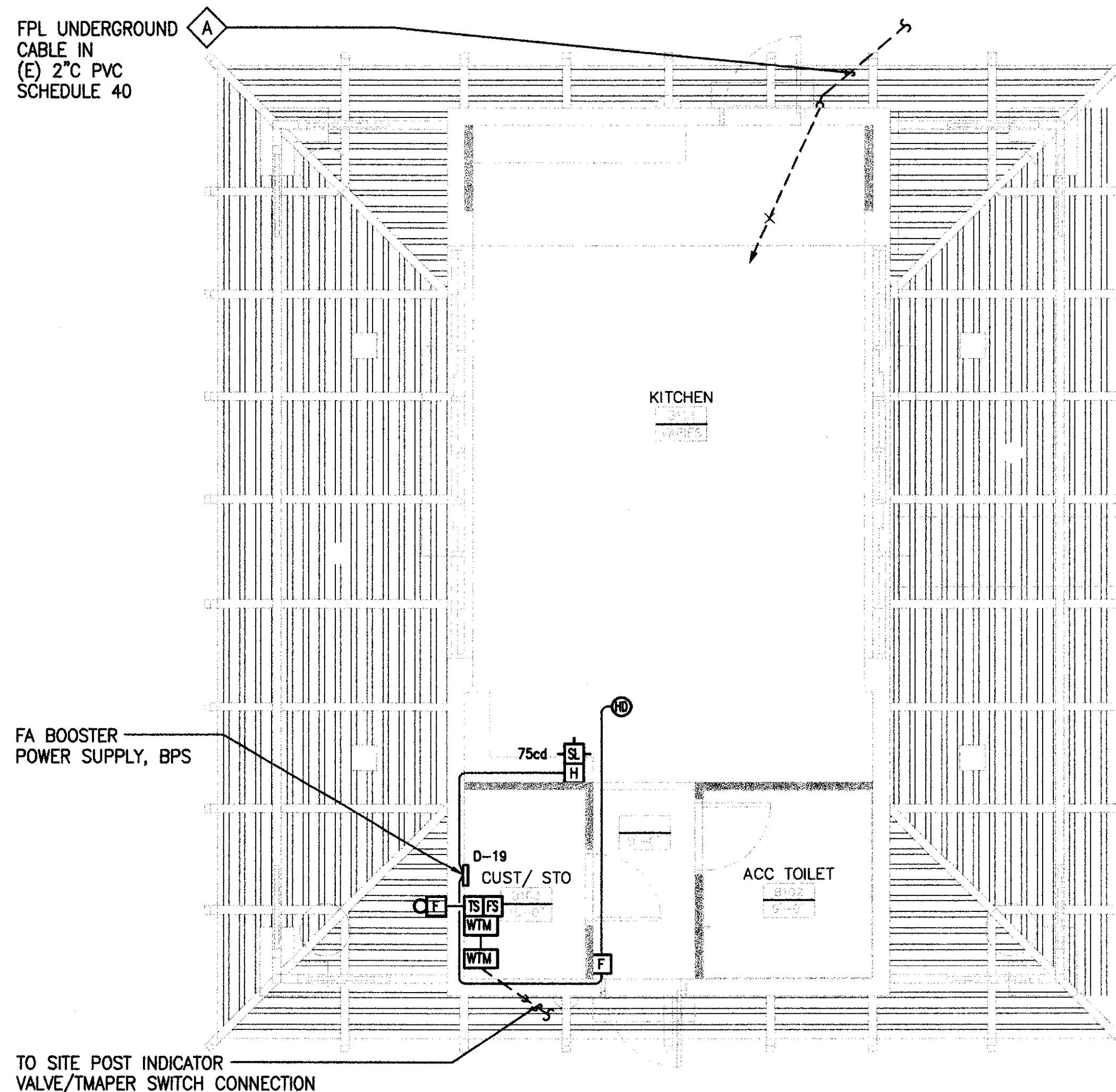
SYSTEM INPUTS		SYSTEM OUTPUTS							
		FACP FUNCTION							
ALARM DEVICES		A	B	C	D	E	F	G	H
1	MANUAL PULL STATIONS	●	●			●	●	●	1
2	HEAT DETECTORS	●	●			●	●	●	2
3	MONITOR PIV			●		●			3
4	TROUBLE FUNCTIONS				●				4
5	FIRE ALARM SYSTEM AC POWER FAILURE				●				5
6	FIRE ALARM SYSTEM LOW BATTERY				●				6
7	ABNORMAL CIRCUIT OR DEVICE				●				7
8	PANEL FUNCTIONS				●				8
9	GROUND FAULT				●				9
		A	B	C	D	E	F	G	H

WIRE LEGEND	
LABEL	WIRE TYPE
A	WEST PENN WIRE #AQ293 (UNDERGROUND) OR APPROVED EQUAL
B	WEST PENN WIRE #D999 (INDOOR) OR APPROVED EQUAL
C	3 #12 AWG THWN CONDUCTOR
D	2 #18 FOR 24VDC POWER
NOTE: ALL UNDERGROUND AND (OR) EXTERIOR CONDUCTORS SHALL BE LISTED FOR SUCH USE	



2 FIRE ALARM SCHEMATIC DIAGRAM

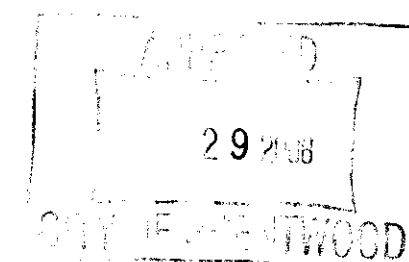
SCALE:



1 FIRE ALARM PLAN

SCALE: 1/4"=1'-0"

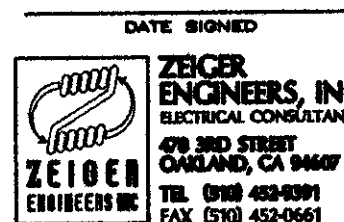
0 1' 2' 4' 6' 8'
SCALE: 1/4" = 1'-0"



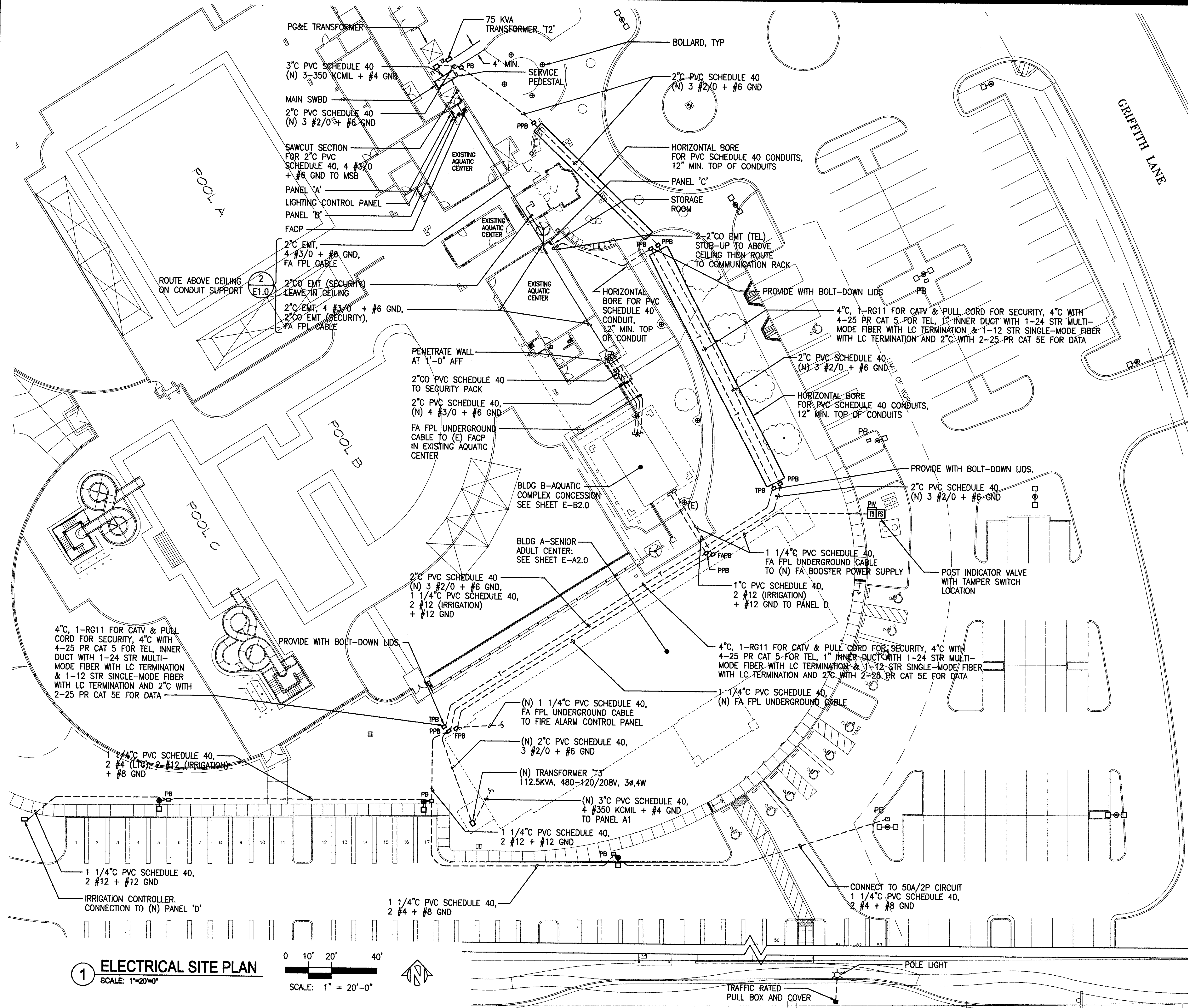
INDOOR LIGHTING POWER ALLOWANCE		LTG-5-C	
PROJECT NAME: PHASE II – AQUATIC COMPLEX CONCESSION		DATE: 12/19/07	
ALLOWED LIGHTING POWER (Choose One Method)			
COMPLETE BUILDING METHOD– CONDITIONED SPACES			
BUILDING CATEGORY (From § 146 Table 146-B)	WATTS PER (ft ²)	COMPLETE BLDG. AREA ALLOWED WATTS	
TOTALS	AREA	WATTS	
TAILORED METHOD– CONDITIONED SPACES			
TOTAL ALLOWED WATTS			
(From LTG-6-C)			
UNCONDITIONED SPACES			
A Complex Building and Area Category Methods CATEGORY (From § 146 Table 146-B & C)	B WATTS PER (ft ²)	C AREA (ft ²)	D ALLOWED WATTS
Concession	1.6	440	704
Restroom, Support areas	0.6	85	51
TOTALS	AREA	WATTS	
TAILORED METHOD– UNCONDITIONED SPACES			
TOTAL UNCONDITIONED SPACES ALLOWED WATTS			755
(From LTG-5-C and LTG-6-C)			

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APPROVED
29 2006
007 15 817 714 00



E-B-EC1

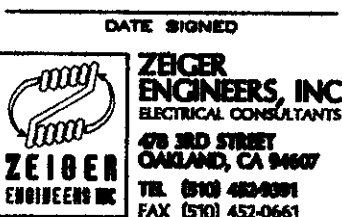
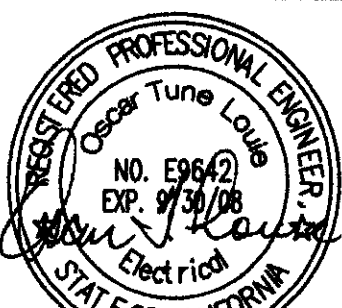


GENERAL NOTES:

1. ALL CONDUITS, WIRINGS AND PULL BOXES SHOWN TO BE EXISTING U.O.N.
2. USE N16 CHRISTY PULL BOX FOR POWER AND TEL/DATA. USE N9 CHRISTY PULL BOX FOR LIGHTING AND FIRE ALARM U.O.N. MARK PULL BOX COVER PER INDIVIDUAL USE ON SITE PLAN (LIGHTING, POWER, TEL/DATA AND FIRE ALARM/SIGNAL)



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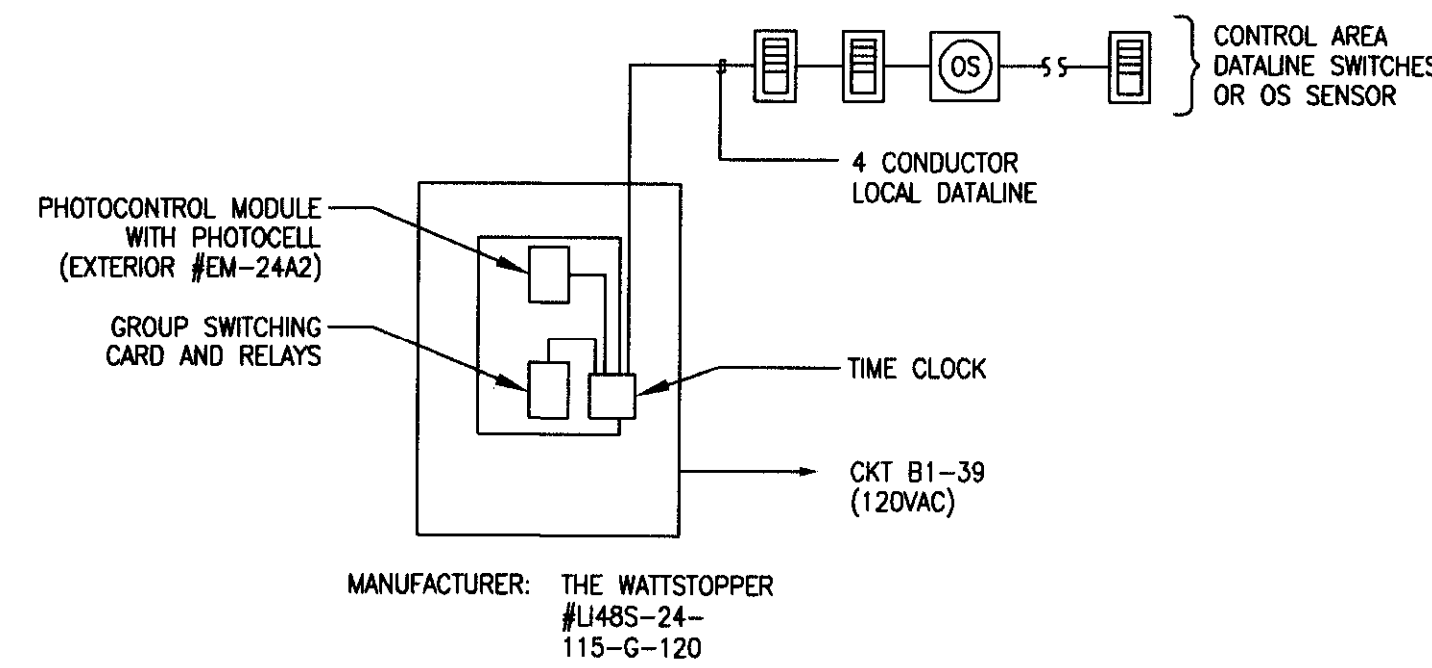
CONSTRUCTION DOCUMENTS
DECEMBER 20, 2007

SHEET TITLE

ELECTRICAL SITE PLAN

SHEET NUMBER

E-1.1



RELAY #	CIRCUIT #	FIXTURE	ROOM #	DATA LINE SWITCH MODEL	DESCRIPTION
1	B1-1,3	F3	A101		
2	B1-11	F3	A102		
3	B1-9	F2	A103		
4	B1-9	F1	A104		
5	B1-9	F10	A105		
6	B1-5	F1	A106		
7	B1-11	F10	A107		
8	B1-5	F1	A108		
9	B1-11	F6	A109		
10	B1-11	F8	A110		
11	B1-11	F7,F8	A111		
12	B1-11	F7,F8	A112		
13	B1-11	F10	A113		
14	B1-11	F10	A114		
15	B1-7	F1	A115		
16	B1-7	F4	A116		
17	B1-7	F4	A117		
18	B1-7	F4	A118		
19	B1-13	F13	EXTERIOR-ENTRY		TIMESWITCH/PHOTOCELL
20	B1-13	F11	EXTERIOR		
21-24	SPARES				

TYPE	DESCRIPTION	MANUFACTURER'S CATALOG NO.	MOUNTING	VOLT.	LAMPS	REMARKS
F1	2' X 4' RECESSED MOUNT LENSED FIXTURE	LIGHTOLIER #SPS2GFSVA332-120	SURFACE	120	3-32W T8	
F2	2' X 4' LINEAR FLUORESCENT ACRYLIC ARC WITH LIGHTSHIELD	LIGHTOLIER "BELMONT-II" #BC2B432UNVH4-10330	SURFACE	120	4-32W T8	
F3	DIRECT/INDIRECT LINEAR PRISMATIC LENS (85% DOWNLIGHT-15% UPLIGHT) WITH COUPLER STEM	LIGHTOLIER #EYS4LNR232UNVH-LP400-EY COUPLER	PENDANT	120	2-32W T8 TANDEM	BATTERY PACK FOR EM LIGHTING ONLY
F4	8' STRIP FLUORESCENT FIXTURE	LIGHTOLIER #SN8S132HPF120SO	SURFACE	120	1-32W T8 IN TANDEM	
F5	8 3/4" WET LENSED DOWNLIGHT	LIGHTOLIER #8098VWH / 8242HUV	RECESSED	120	1-32W TTT	
F6	4' STRIP FLUORESCENT FIXTURE	LIGHTOLIER #SN4S132HPF120SO	SURFACE	120	1-32W T8	
F7	60 1/2" FLUORESCENT ACRYLIC WHITE WALL VANITY	LIGHTOLIER #5405PCU	WALL	120	2-40W T8	
F8	6" LENSED DOWNLIGHT WITH INTEGRAL BATTERY PACK	LIGHTOLIER #8091FCLW-FAEM3E, S6132BU-126	CEILING	120	1-26W TT	BATTERY PACK FOR EM LIGHTING ONLY
F9	DECORATIVE LIGHTSHIELD WITH INTEGRAL BATTERY PACK	LIGHTOLIER #40871/40828U	WALL	120	2-18W TWIN CFL	BATTERY PACK FOR EM LIGHTING ONLY
F10	3' STRIP FLUORESCENT FIXTURE	LIGHTOLIER #SN3S125HPF120SO	SURFACE	120	1-25W T8	
F11	DIE-CAST HEAVY PRESSED CERAMIC-COATED GLASS, FULLY-GASKETED FOR WET LOCATION	LIGHTOLIER #4552BK1	WALL	120	1-26W QUAD	VIA LCP
F12	EXIT SIGN, LED TYPE WITH 90 MIN. BATTERY PACK	LIGHTOLIER #EX(1/2)-G-3-W-C-N	WALL / CEILING	120	LED TYPE	2 FACES FOR UNIT ALONG GRID 6
F13	19.5" DIAMETER SHADE-VAPORITE PRISMATIC GLASS DECORATIVE FIXTURE WITH REMOTE BALLAST USING 1/2" THREADED STEM	LIGHTOLIER #RW42LGC1	PENDANT	120	1-42W PL	VIA LCP
F14	TRACK LIGHT, 2-CIRCUIT PER 8' LENGTH	CON-TECH LIGHTING #NTEK48-B-NFT48-B	SURFACE	120		16' TOTAL LENGTH

GENERAL NOTES:

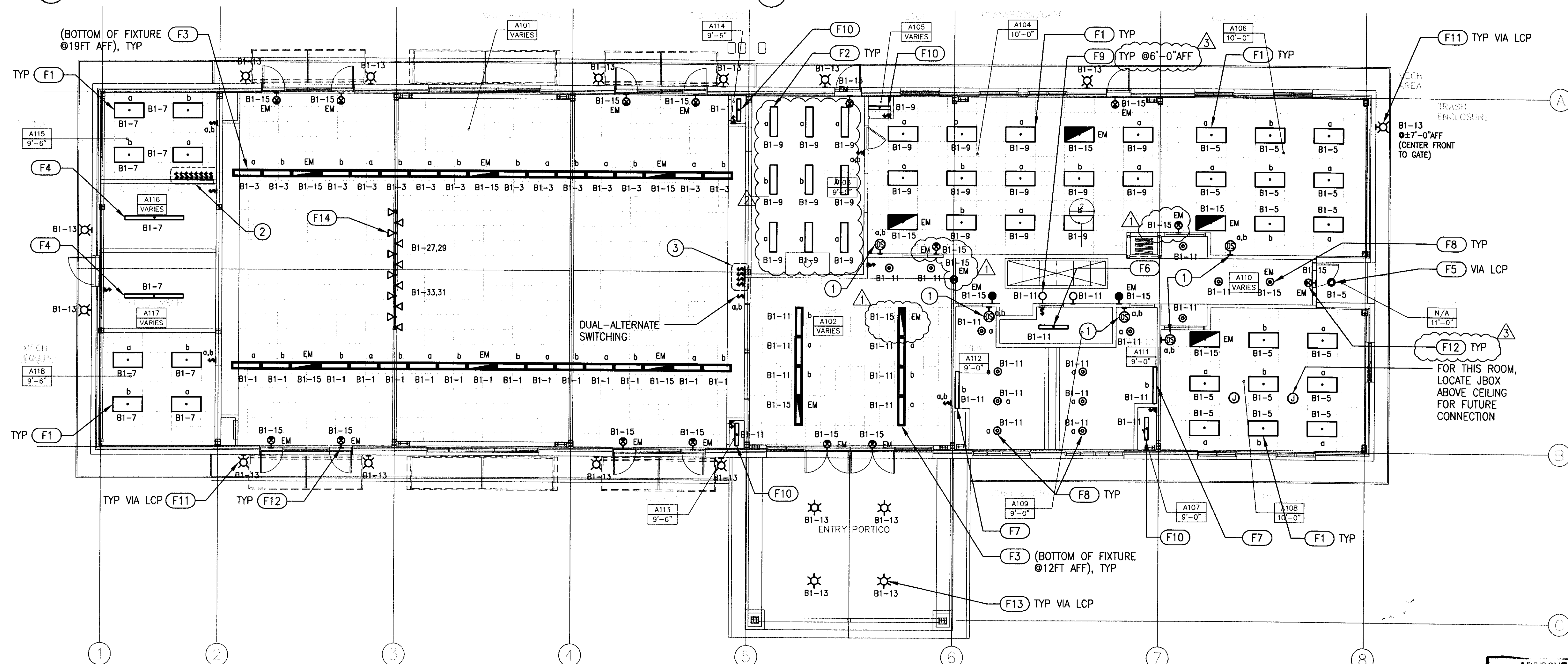
1. INCLUDE BATTERY PACKS FOR EMERGENCY (EM) LIGHTING
2. ALL F5, F11 AND F13 EXTERIOR FIXTURES CONTROLLED VIA LIGHTING CONTROL PANEL (LCP). REFER TO EXTERIOR LIGHTING ELEVATIONS FOR EXACT MOUNTING HEIGHT
3. FOR KITCHEN A103, REQUIRED LIGHTING INTENSITY OF 50 FOOTCANDLES MINIMUM ACHIEVED WITH REVISED LIGHTING LAYOUT OF F1 FIXTURE (9 TOTAL)

SHEET NOTES:

- 1 WALL-MOUNTED OCCUPANCY SENSOR WITH TWO INTEGRAL SWITCHES, TYP UON
- 2 MAIN DIMMER SWITCH, SINGLE POLE BY LUTRON #NT-1503P
- 3 3-WAY SWITCH, SINGLE POLE BY LUTRON #NT-3PS (INDIVIDUALLY LINKED TO MAIN DIMMER SWITCH)

3 LIGHTING CONTROL PANEL SCHEDULE

2 LIGHT FIXTURE SCHEDULE



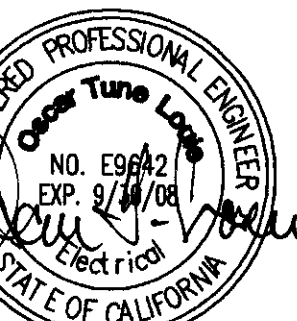
1 SENIOR ADULT CENTER LIGHTING PLAN

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 12' 16'
SCALE: 1/8" = 1'-0"



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DATE: 03/21/08
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NO.	DATE	DESCRIPTION
1	03/21/08	CCCFD REVIEW
2	04/17/08	SETH REVIEW
3	04/17/08	ZE CLARIFICATION

CITY OF BRENTWOOD
ARCH PROJECT NO. 641.02
DRAWN BY: STAFF
DRAWING SCALE:

CONSTRUCTION DOCUMENTS
DECEMBER 20, 2007

SHEET TITLE

SENIOR ADULT CENTER-BLDG A LIGHTING PLAN

SHEET NUMBER

E-A2.0

PANEL SCHEDULE: A1									
120/208 VOLTS, 3 PHASE, 4 WIRE									
KAIC RATING: 10									
MAIN BREAKER REQ'D: 300A MAIN LUGS ONLY: BUS RATING: 400 AMPS PANEL TYPE: PLUG-ON LOCATION: ELECTRICAL 112									
DESCRIPTION	PHASE A	PHASE B	PHASE C	AMPS	POLE	CKT	DESCRIPTION	PHASE A	PHASE B
WH-1	180			20	1	1	CU-1	2028	2028
SPARE				20	1	3	24.3 MCA, 1#		
SPARE				20	1	5	CU-2		
TELEPHONE 'TTB'	180			20	1	7	13.3 MCA, 1#	1106	1106
SPARE				20	1	9	CU-4		
SPARE				20	1	11	17.2 MCA, 1#	1431	1431
F-6, 2.5HP, 3#	1188	1188		20	1	13	CU-5	1106	
				15	2	16	13.3 MCA, 1#		
				17	1	18	RECEPT-A101		
CU-3, 17.2 MCA, 3#	1800	1800		20	1	20	CU-7, 12.1 MCA	1452	
				21	1	22	FC-1, 12.1 MCA		
				23	1	24	RECEPT-A101	900	
CU-6, 81.2 MCA, 3#	8352	8352		25	1	26	FACP		
				27	1	28	SECURITY PANELS		
				29	1	30	DOOR PANIC HARDWARE	500	
RACK 1	1400			20	1	31	RECEPT-A115,118		
RACK 2		1400		20	1	33	RECEPT-A116,117		
RACK 3			1400	20	1	35	SPARE		
RACK 4	1400			20	1	37			
RACK 5		1400		20	1	39			
RACK 6			1400	20	1	41			
TOTALS	14500	14140	14140			42	TOTALS	17898	16503
TOTALS									
TOTALS									

TOTAL CONNECTED LOAD: 94220 VA
LONG TIME CONTINUOUS LOAD: 94220 VA (262A)
CALCULATED FEEDER LOAD: 94220 VA (262A)

PANEL SCHEDULE: B1									
120/208 VOLTS, 3 PHASE, 4 WIRE									
KAIC RATING: 10									
MAIN BREAKER REQ'D: X MAIN LUGS ONLY: BUS RATING: 150 AMPS PANEL TYPE: PLUG-ON LOCATION: CUSTODIAN 111									
DESCRIPTION	PHASE A	PHASE B	PHASE C	AMPS	POLE	CKT	DESCRIPTION	PHASE A	PHASE B
LIGHTING	896	896		20	1	1	EF-3, SF-1, SOLENOID	1872	1152
LIGHTING				20	1	3	ICE MAKER, 9.6A		
LIGHTING			1500	20	1	5	RECEPT-A103		1080
LIGHTING, EF-1	900			20	1	7	RECEPT-A103		
LIGHTING, EF-2		1500		20	1	9	DEDICATED RECEPT-A103		
LIGHTING			1200	20	1	11	RECEPT-P/D/S		
EMERGENCY LIGHTING (EM)	1200	600		20	1	13	DISPOSER, 1HP		
F-1, 14.1A				20	1	15	RECEPT-A104		
F-2, 6.1A	732			20	1	17	RECEPT-A104		720
F-3, 9.5A		1140		20	1	19	RECEPT-A106		
F-4, 9.5A			1892	20	1	21	RECEPT-A108		1080
F-5, 6.1A	732			20	1	23	RECEPT-A108		
LIGHTING		1500		20	1	25	RECEPT-A108		
LIGHTING			1500	20	1	27	RECEPT-A102,109,110		
LIGHTING	1500			20	1	29	RECEPT-A111,112		
LIGHTING				20	1	31	FREEZER (DEDICATED)		
SPARE				20	1	33	REFRIGERATOR (DEDICATED)		
SPARE				20	1	35	C. COUNTER DOOR, 1/2HP		1176
LIGHTING CONTROL PANEL (LCP)		500		20	1	37	SPARE		
SPARE				20	1	39	SPARE		
TOTALS	5960	7636	7584			41	TOTALS	7632	5652
TOTALS									
TOTALS									

TOTAL CONNECTED LOAD: 39420 VA
LONG TIME CONTINUOUS LOAD: 3673 VA
CALCULATED FEEDER LOAD: 43093 VA (120A)

2 PANEL SCHEDULES

SHEET NOTES:

- FOR AUDIO/VIDEO/DATA (P/D/S)
- MONUMENT TYPE FLOOR DUPLEX RECEPTACLE HUBBELL #SC3098A, SS309D OR APPROVED EQUAL
- FOR GAS SOLENOID
- TV POWER AND CABLE RG6 CONNECTION MOUNTED +84" AFF
- LOCATE POWER/TEL/DATA INSIDE SECURITY PANEL. CONTRACTOR TO VERIFY MOUNTING LOCATION WITH SECURITY CONSULTANT ON SITE PRIOR TO INSTALLATION
- CEILING MOUNTED JUNCTION BOX FOR COILING COUNTER DOOR WITH KEY SWITCH CONTROL, BY OVERHEAD DOOR COMPANY, MODEL CDO (REFER TO SPECIFICATION FOR INSTALLATION AND OTHER REQUIREMENTS)
- PROVIDE SHUNT TRIP BREAKER FOR EQUIPMENT SHUTDOWN, SEE FA PLAN E-A3.0
- HOOD EXHAUST AND MECHANICAL MAKE-UP AIR SYSTEMS SHALL BE CONNECTED BY AN ELECTRIC INTERLOCKING SWITCH AS REQUIRED. SEE MECHANICAL DRAWING
- LIGHT SWITCH-ACTIVATED VENTILATION FAN EF-1 SHALL BE USED IN THE RESTROOMS. SEE MECHANICAL DRAWING



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REVISIONS		
03/21/08	CCCCPD REVIEW	
04/15/08	CCCH REVIEW	
04/17/08	ZE CLARIFICATION	REVISED

DATE: JUN - 6 2009

ARCH PROJECT NO: 641-08
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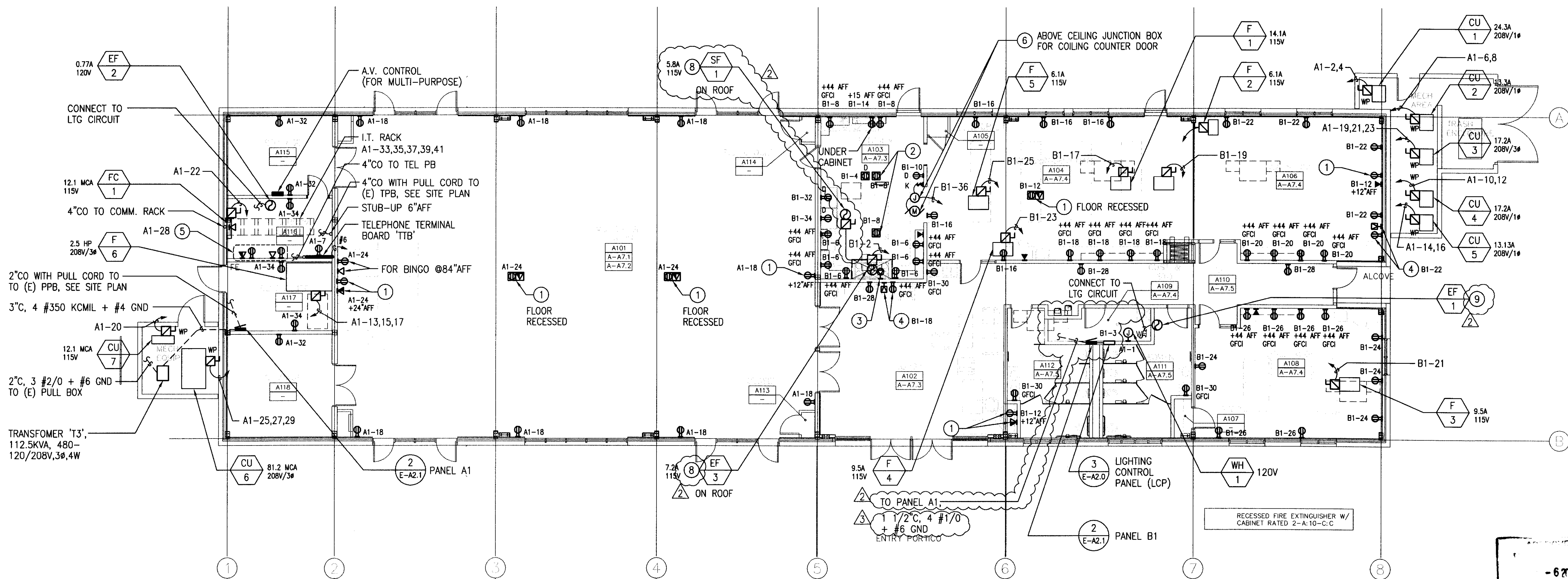
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SHEET TITLE

SENIOR ADULT CENTER-BLDG A
POWER PLAN

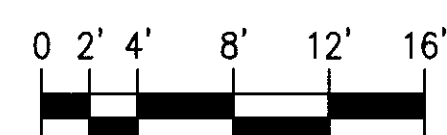
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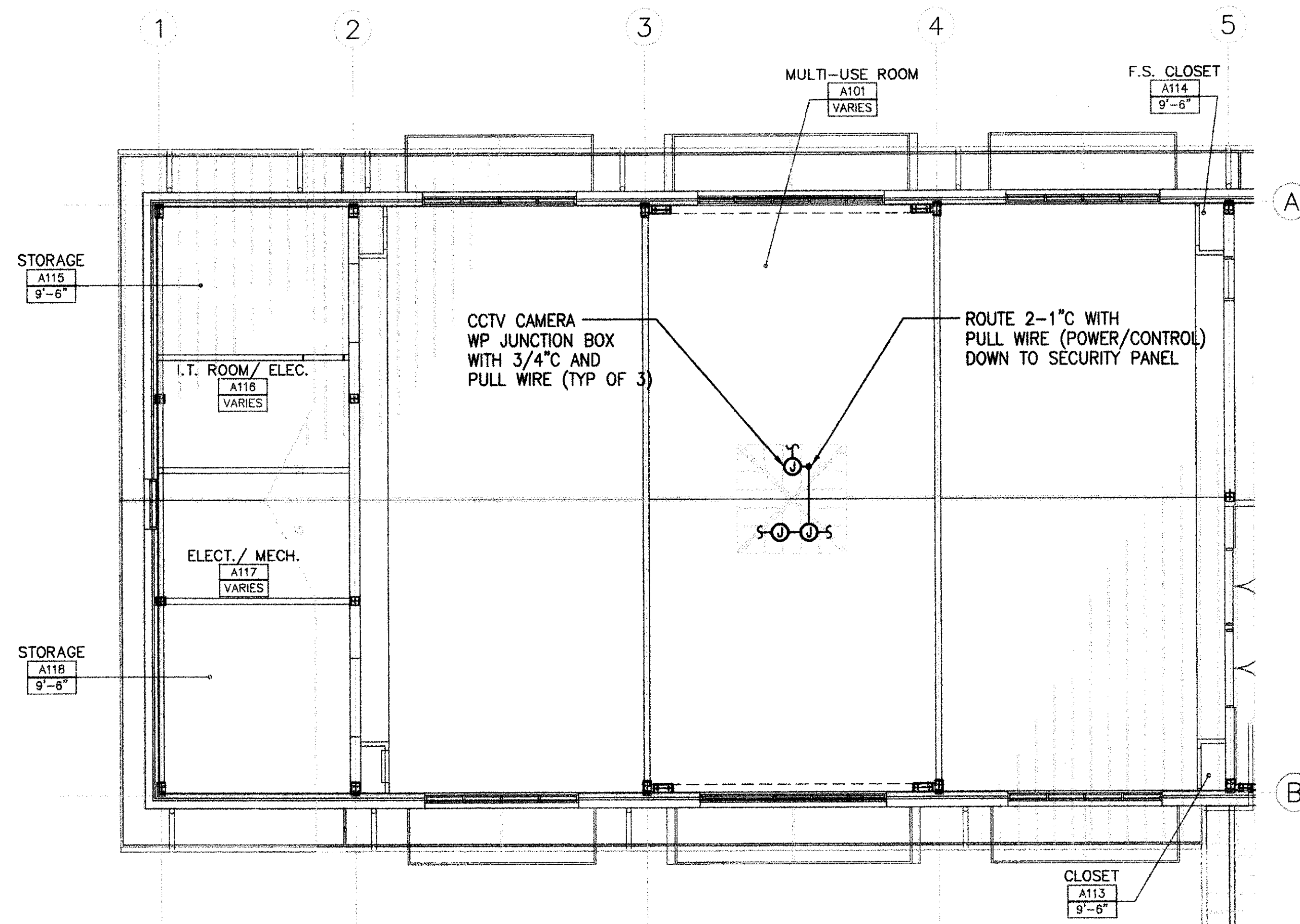


1 SENIOR ADULT CENTER POWER PLAN

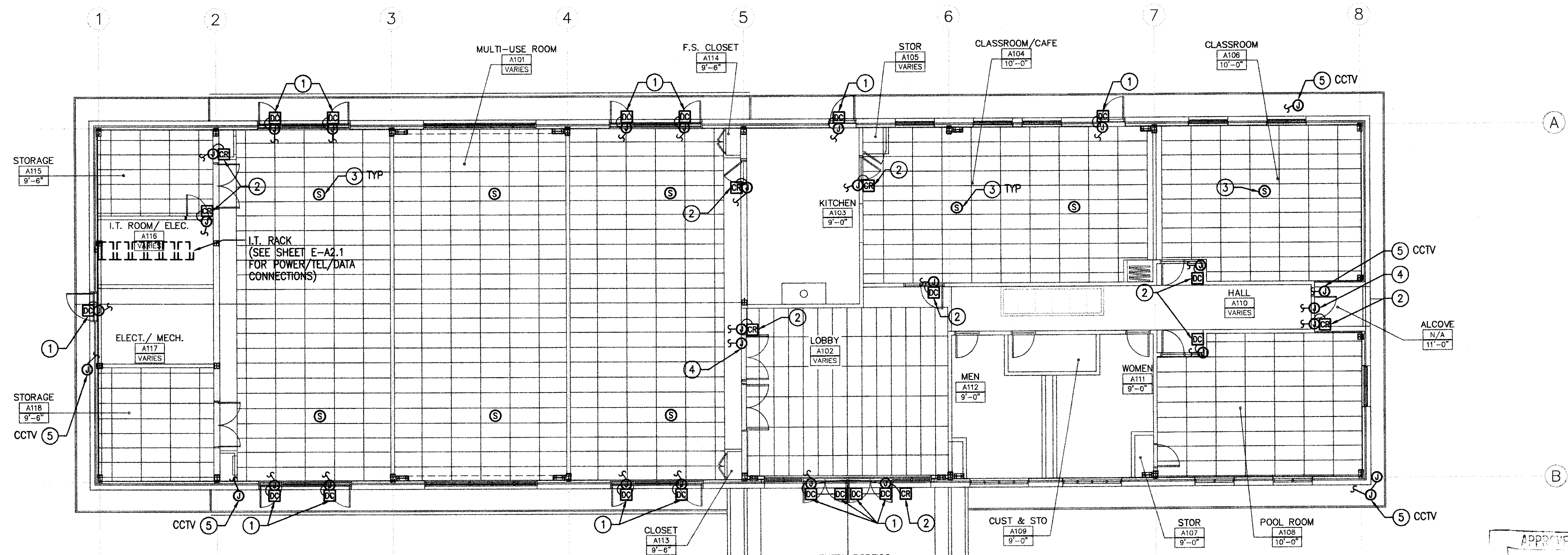
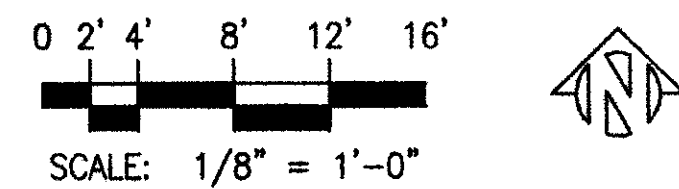
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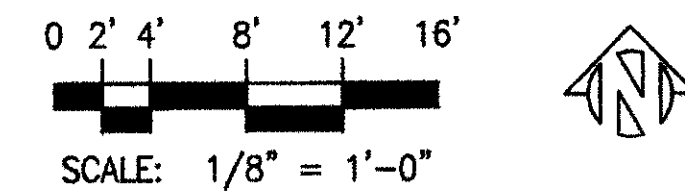
SCALE: 1/8" = 1'-0"



2 SENIOR ADULT CENTER PARTIAL ROOF PLAN
SCALE: 1/8" = 1'-0"



1 SENIOR ADULT CENTER SECURITY/SIGNAL PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTE:

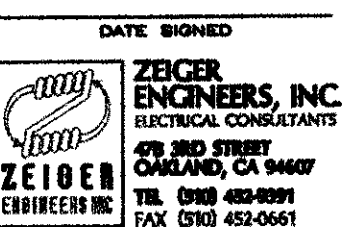
1. SECURITY CONTRACTOR TO VERIFY ALL DEVICES, WIRE COUNT AND TYPE FROM MANUFACTURER PRIOR TO INSTALLATION. REFER TO SECURITY CONSULTANT DRAWINGS FOR DETAILS, NOTES AND ADDITIONAL REQUIREMENTS

SHEET NOTES:

- 1 SECURITY SYSTEM DOOR CONTACT ON SECURITY JUNCTION BOX WITH 3/4"C AND PULL WIRE TO SECURITY PANEL (SEE SECURITY DETAILS/LAYOUT)
- 2 SECURITY SYSTEM CARD READER ON SECURITY JUNCTION BOX WITH 3/4"C AND PULL WIRE TO SECURITY PANEL (SEE SECURITY DETAILS/LAYOUT)
- 3 SPEAKER ON 2"x4' CEILING GRID. ROUTE 1/2"C WITH PULL WIRE TO I.T. ROOM
- 4 JUNCTION BOX (ON CEILING). ROUTE 1/2"C, 2 #12 + #12 GND (POWER FOR DOOR PANIC HARDWARE) TO PANEL A1-30
- 5 CCTV JUNCTION BOX WITH 2-1"C (POWER/CONTROL) TO SECURITY PANEL (SEE SECURITY DETAILS/LAYOUT)



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PHASE II - SENIOR ADULT CENTER AND AQUATIC COMPLEX CONCESSION

CITY OF
BRENTWOOD

195 GRIFFITH LN.
BRENTWOOD, CA

SENIOR ADULT CENTER
C.I.P. #522-52280

AQUATIC COMPLEX
CONCESSION
C.I.P. #522-52300

REVISIONS	

ARCH PROJECT NO: 641.02
DRAWN BY: STAFF
DRAWING SCALE:

CONSTRUCTION DOCUMENTS
DECEMBER 20, 2007

SHEET TITLE

SENIOR ADULT
CENTER-BLDG A
SECURITY/
SIGNAL PLAN

SHEET NUMBER

E-A2.2

GENERAL ELECTRICAL NOTES:

1. COMPLIANCE WITH FEDERAL, STATE AND LOCAL WIRING CODES IS REQUIRED INCLUDING NFPA 2001 AND NFPA 70.
2. INPUT POWER TO ALARM PANEL(S) TO BE 120 VAC, ON A DEDICATED CIRCUIT THAT DOES NOT DE-ENERGIZE UPON SYSTEM ALARM OR EPO ACTIVATION ETC. THAT CIRCUIT SHALL BE LABELED AT THE ELECTRICAL PANEL, AND BE PROVIDED WITH A LOCKOUT. THE ELECTRICAL PANEL AND CIRCUIT NUMBER SHALL BE NOTED AT THE FIRE ALARM CONTROL PANEL. THIS WIRING AND TERMINATION IS TO BE PROVIDED BY OTHERS, AND NOT TO BE RUN IN THE SAME CONDUIT AS ALARM PANEL DEVICES.
3. A SEPARATE EARTH GROUND MUST BE INSTALLED. PANEL NEUTRAL OR CONDUIT GROUND IS NOT ACCEPTABLE. THIS WIRING IS TO BE PROVIDED BY OTHERS.
4. ALL 120 VAC WIRING TO BE KEPT SEPARATE FROM ALL FIRE ALARM CIRCUITS.
5. ALL AUDIBLE/VISUAL DEVICES ARE TO BE PLACED SO THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" FROM THE FLOOR.
6. MANUAL RELEASE AND ABORT STATIONS ARE TO BE MOUNTED 48" FROM THE FINISHED FLOOR AS MEASURED FROM THE CENTER OF THE DEVICE.
7. NO BRANCH CIRCUITS ALLOWED, EXCEPT WHERE NOTED.
8. CONDUIT TO BE EMT WITH SET SCREW, OR COMPRESSION FITTINGS. ALL JUNCTION BOX COVERS ARE TO BE LABELED "FA" WITH A PERMANENT MARKER.
9. EXACT LOCATIONS OF DETECTORS AND CONTROL EQUIPMENT SHALL BE DETERMINED IN THE FIELD. EXACT PLACEMENT MAY BE SUPERSEDED BY FIXTURES, DUCTS, TRAYS ETC. DETECTORS SHALL BE LOCATED A MINIMUM OF 3 FT. FROM ANY AIR SUPPLY DIFFUSER ETC. AND A MINIMUM OF 4 INCHES FROM A SIDEWALL TO THE NEAR EDGE OF THE DETECTOR.
10. POLARITY SHOULD BE OBSERVED ON ALL DEVICES.
11. ANY WIRING THAT IS REQUIRED FOR EQUIPMENT SHUTDOWNS SUCH AS AIR HANDLERS, SHUNT TRIPS ETC. IS TO BE PROVIDED BY OTHERS, AND NOT TO BE RUN IN THE SAME CONDUIT AS ALARM PANEL DEVICES.
12. ANY WIRING THAT IS REQUIRED FOR MONITORING OF THE ALARM PANEL(S) SUCH AS LIFE SAFETY EQUIPMENT OR OFFSITE MONITORING COMPANIES IS TO BE PROVIDED BY OTHERS.
13. ANY RELAY ENCLOSURE LOCATIONS SHOULD BE COORDINATED ON JOB SITE.
14. PANEL AND DEVICES ARE EQUIPPED WITH SCREW TYPE CAGE CLAMP TERMINATIONS OR SADDLE CLAMPS. WIRE SPADE CONNECTORS NOT NEEDED EXCEPT FOR MANUAL RELEASE STATIONS.
15. EOL RESISTORS SHALL NOT BE SPLICED TO FIELD WIRING.
16. CHECK FOR WIRE TO WIRE SHORTS AND SHORTS TO GROUND, NONE ARE ACCEPTABLE.
17. ALL DEVICE WIRING TO BE LABELED.
EXAMPLE: WIRES GOING INTO A DEVICE SHALL BE LABELED IN, WIRES LEAVING THE DEVICE SHALL BE LABELED OUT. SEE DRAWINGS FOR DETAILS.

FIRE ALARM MATRIX / SEQUENCE OF OPERATION

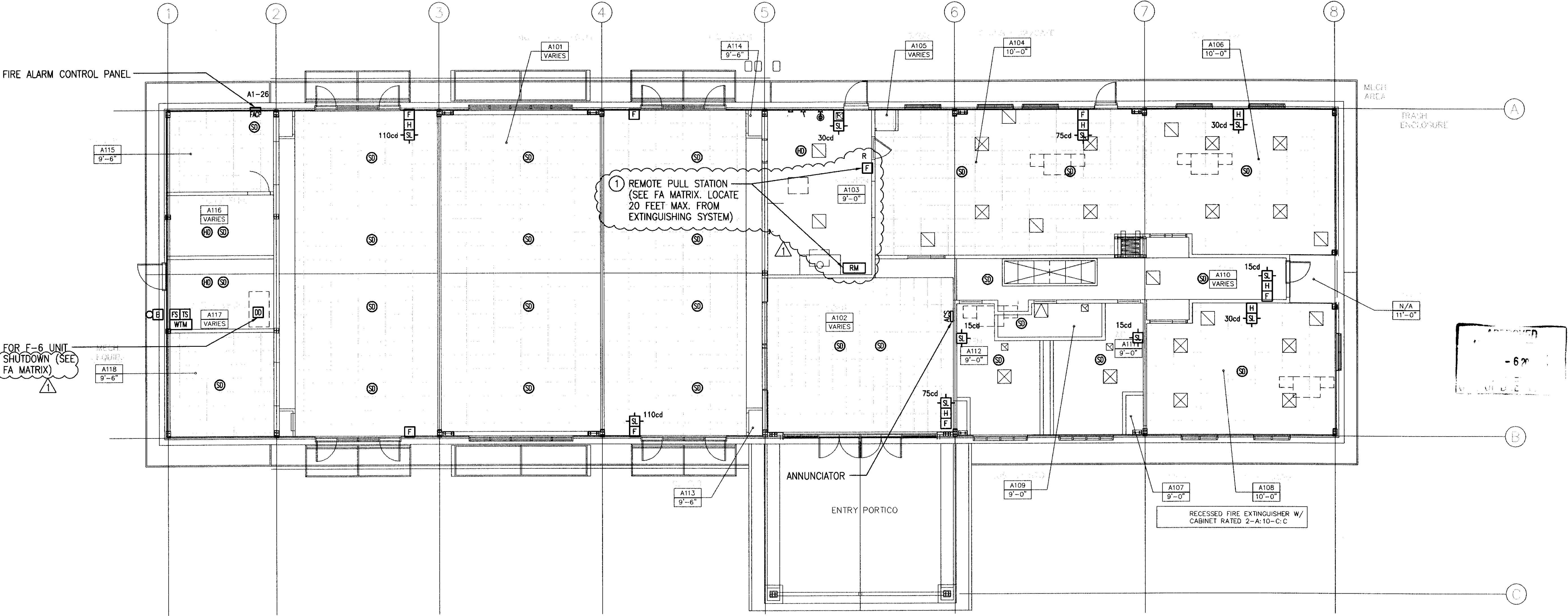
SYSTEM INPUTS		SYSTEM OUTPUTS										
		FACP FUNCTION										
ALARM DEVICES		ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE AUDIBLE SIGNAL PANEL	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTIVATE COMMON TROUBLE INDICATOR	ANNUNCIATE ORIGIN AND DESCRIPTION OF SIGNAL ON LOG DISPLAY	ACTIVATE HORN / STROBE DEVICES	TRANSMIT DISTINCT ALARM SIGNAL TO U.L. LISTED CENTRAL STATION	TRANSMIT TROUBLE TO U.L. LISTED CENTRAL STATION	SHUTDOWN MECH UNIT, F-6	ACTIVATE SHUNT TRIP BREAKER	RELEASE DRY HOOD ANSUL SYSTEM
1	MANUAL PULL STATION	●	●			●	●	●				
2	REMOTE PULL STATION	●	●			●	●	●				
3	SMOKE DETECTOR	●	●			●	●	●				
4	DUCT DETECTOR					●	●	●				
5	HEAT DETECTOR	●	●			●	●	●				
6	WATERFLOW SWITCHES	●	●			●	●	●				
7	VALVE TAMPER SWITCHES			●								
8	FIRE ALARM SYSTEM AC POWER FAILURE				●				●			
9	FIRE ALARM SYSTEM LOW BATTERY				●				●			
10	ABNORMAL CIRCUIT OR DEVICE				●				●			
11	PANEL FUNCTIONS				●							
12	GROUND FAULT				●				●			
		A	B	C	D	E	F	G	H	I	J	K

FIRE ALARM LEGEND / DEVICES

SYMBOL	DEVICE	MANUFACTURER	CSFM
	FIRE ALARM CONTROL PANEL	EDWARDS SYSTEMS TECHNOLOGY EST-QS1	7165-1657:207
	ANNUNCIATOR	EDWARDS SYSTEMS TECHNOLOGY 2080 SERIES	7120-1657:146
	PULL STATION	EDWARDS SYSTEMS TECHNOLOGY SIGA 270	7150-1657:129
	SEE SHEET NOTE ①		
	HEAT DETECTOR AND BASE	EDWARDS SYSTEMS TECHNOLOGY 281B-PL, SIGA-SB	7270-1657:109 7300-1657:120
	SMOKE DETECTOR AND BASE	EDWARDS SYSTEMS TECHNOLOGY 4D MULTISENSOR, SIGA-SB	7270-1657:123 7300-1657:120
	DUCT DETECTOR	EDWARDS SYSTEMS TECHNOLOGY SIGA-SD	3242-1501:153
	HORN/STROBE	EDWARDS SYSTEMS TECHNOLOGY 757-7A	7125-1657:189
	RELAY MODULE	EDWARDS SYSTEMS TECHNOLOGY SIGA-MCR	7300-1657:121
	WATERFLOW/TAMPER MODULE	EDWARDS SYSTEMS TECHNOLOGY SIGA-WTM	7300-1657:121
	TAMPER SWITCH	COORDINATE WITH FIRE SPRINKLER INSTALLATION	-
	WATER FLOW SWITCH	COORDINATE WITH FIRE SPRINKLER INSTALLATION	-
	WATERFLOW BELL	COORDINATE WITH FIRE SPRINKLER INSTALLATION	-
	END OF LINE RESISTOR	EDWARDS SYSTEMS TECHNOLOGY	-

SHEET NOTE:

- ① PROVIDE REMOTE PULL STATION AND ACTIVATE RELAY MODULE FOR HOOD ANSUL SYSTEM (BY FIRE SYSTEM DISTRIBUTOR). PROVIDE STANDARD PLACARD STATING "FOR KITCHEN FIRES ONLY" FOR THE ANSUL SYSTEM. ACTIVATE RELAY MODULE FOR SHUNT TRIP BREAKER



① SENIOR ADULT CENTER FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

0 2' 4' 8' 12' 16'
SCALE: 1/8" = 1'-0"



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CONCESSION
C.I.P. #522-52300

REVISIONS
03/21/08 CCCFPD REVIEW
REVISED

03-16-2008

CITY OF BRENTWOOD
COMMUNITY DEVELOPMENT DEPT

ARCH PROJECT NO: 641.02

DRAWN BY: STAFF

DRAWING SCALE:

CONSTRUCTION DOCUMENTS

DECEMBER 20, 2007

SHEET TITLE

SENIOR ADULT
CENTER-BLDG A
FIRE ALARM
PLAN

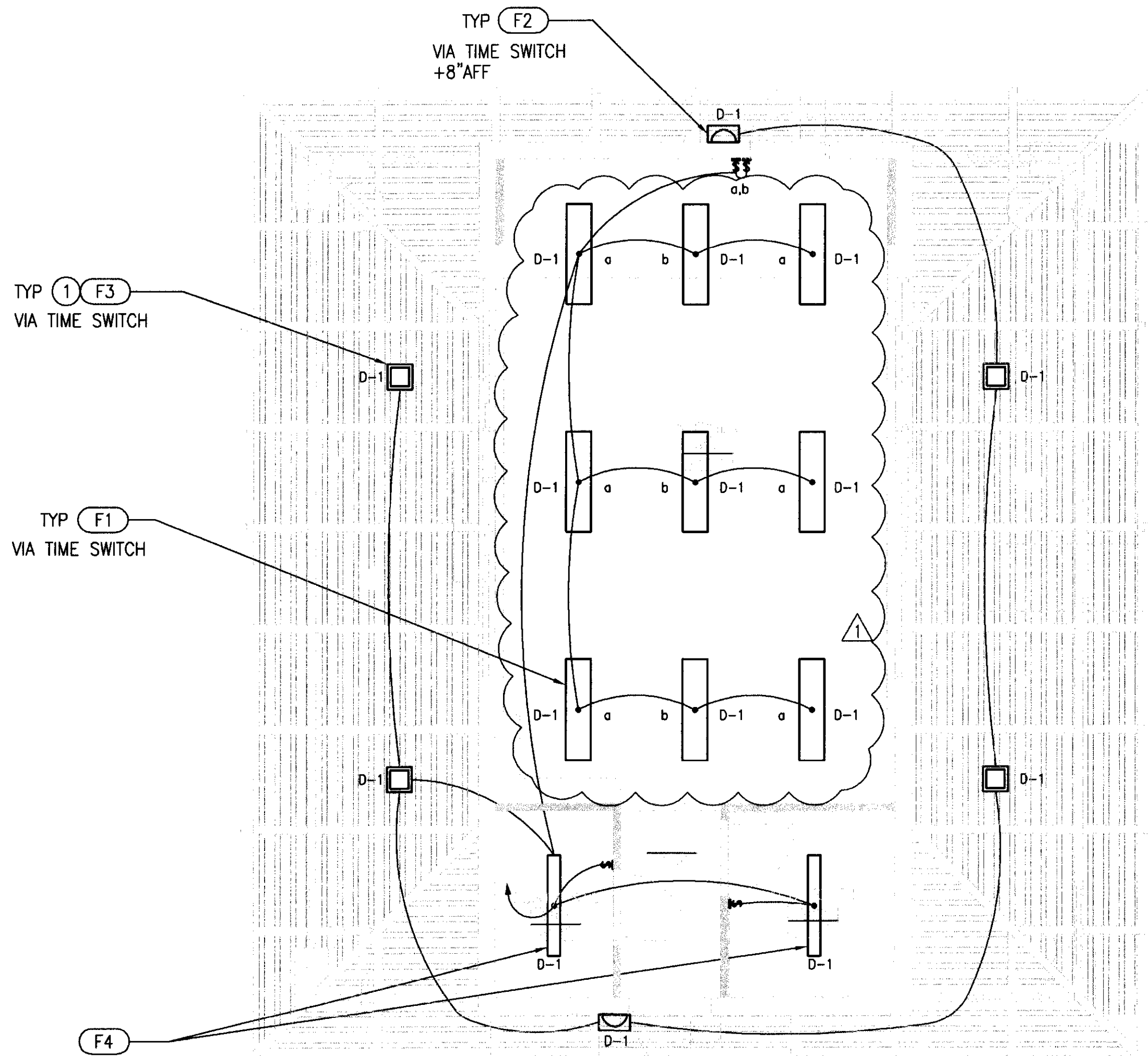
SHEET NUMBER

E-A3.0

PANEL SCHEDULE: D						120/208V VOLTS, 3 PHASE, 4 WIRE						KAIC RATING: 10 (3)																	
MAIN BREAKER REQ'D: X						MAIN LUGS ONLY:						BUS RATING: 225 AMPS						PANEL TYPE: BOLT-ON						LOCATION: CONCESSION STAND					
DESCRIPTION	PHASE A	PHASE B	PHASE C	AMPS	POLE	CKT					CKT	POLE	AMPS	PHASE A	PHASE B	PHASE C	DESCRIPTION												
INTERIOR/EXTERIOR LIGHTING	1028			20	1	1	X				2	1	20	1584			NACHO MACHINE												
SPARE				20	1	3	X				4	1	20		1000		SODA MACHINE												
CASH REGISTER			1000	20	1	5	X				6	1	20			816	CARBONATOR												
CASH REGISTER	1000			20	1	7	X				8	1	20	540			RECEPT												
HOTDOG MACHINE		1320		20	1	9	X				10	1	20		360		RECEPT-GFCI												
POPCORN MACHINE			1125	20	1	11	X				12	1	20			500	CROCK POT												
POPCORN MACHINE	1125			20	1	13	X				14	1	20	900			WP RECEPT												
HOT CHOCOLATE MACHINE		1800		20	1	15	X				16	1	20		200		TIME SWITCH/IRRIGATION												
HOT CHOCOLATE MACHINE			1800	20	1	17	X				18	1	20			1350	FLY FANS												
FA BOOSTER POWER SUPPLY	200			20	1	19	X				20	1	20	540			BELOW COUNTER REFRIGERATOR												
SLUSHIE MACHINE		1800		20	1	21	X				22	1	20		1600		DISPOSAL												
SLUSHIE MACHINE			1800	20	1	23	X				24		20			697	PTAC-1												
WATER HEATER, WH, 2-4500W, 208V/3ø	2500			50		25	X				26	2			697		6.7A, 208V/1ø												
		4500		27		27	X				28		20		697		PTAC-2												
		2500		29	3	29	X				30	2			697		6.7A, 208V/1ø												
COFFEE MACHINE 6300W, 208V/3ø	2100			20		31	X				32		20	1664			ICE MAKER												
		2100		33		33	X				34	2		1664			208V/1ø												
			2100	35	3	35	X				36	1	20		1800		WARM HOLDING DRAWERS												
COFFEE MACHINE 6300W, 208V/3ø	2100			20		37	X				38	1	20				WARM HOLDING DRAWERS												
		2100		39		39	X				40	1	20				SPARE												
			2100	3		41	X				42	1	20			1200	REFRIGERATOR												
TOTALS	10053	13620	12425											7725	5521	5710	TOTALS												
TOTAL CONNECTED LOAD:														55054 VA															
LONG TIME CONTINUOUS LOAD:														10528 X 0.25 =				2632 VA											
CALCULATED FEEDER LOAD:														57686 VA (160A)															

* - FUTURE EQUIPMENT (NIC)

3 PANEL SCHEDULE



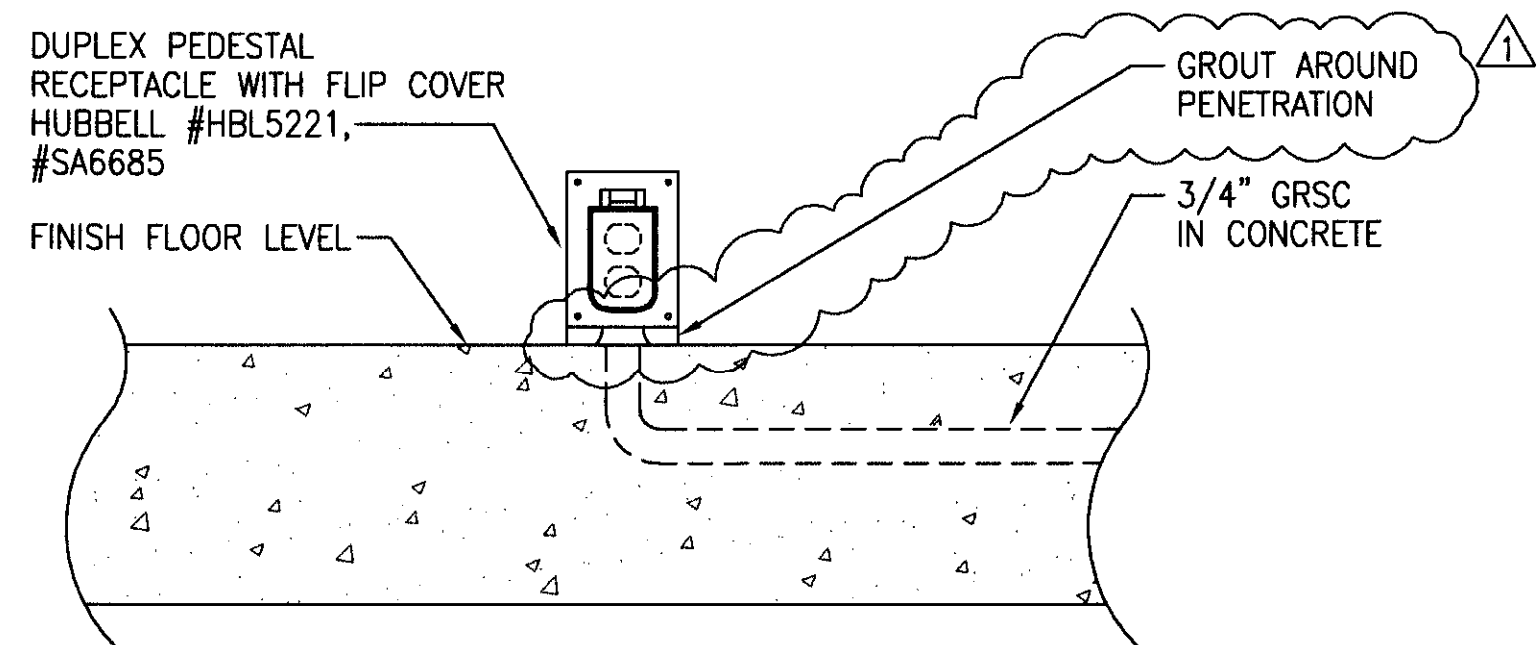
1 LIGHTING PLAN

SCALE: 1/4"=1'-0"

0 1' 2' 4' 6' 8'
SCALE: 1/4" = 1'-0"

REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS TO DETERMINE NECESSARY FIXTURE MOUNTING ACCESSORIES AND TO APPLICABLE BUILDING CODES FOR REQUIRED FIXTURE SUPPORTS, AND FOR MAINTAINING CEILING FIRE RATINGS. FLUORESCENT BALLASTS SHALL BE CERTIFIED PER TL24, SEC2-5314a.						
TYPE	DESCRIPTION	MANUFACTURER'S CATALOG NO.	MOUNTING	VOLT.	LAMPS	REMARKS
F1	2'X4' 3-LAMP T-8 LENSED FIXTURE WITH ELECTRONIC BALLAST	LIGHTOLIER #JS-4-B-432-120-04	SURFACE	120	4-32W T8	
F2	FULL-CUTOFF VANDAL-RESISTANT DECORATIVE SECURITY LIGHTING	ACCULITE LIGHTING #DT50MH-120BLK	WALL	120	50W MH	EXTERIOR
F3	8" SQUARE VANDAL-RESISTANT FIXTURE WITH INJECTION FOR WET LOCATION WITH INJECTION MOLDED CARBONATE LENS	MORLITE #VH-88-50MH-F1-120	CEILING	120	70W MH	EXTERIOR
F4	WATER-TIGHT ONE-PIECE ACRYLIC LENS FLUORESCENT FIXTURE	LIGHTOLIER #SC-4-D-C-232-120	SURFACE	120	2-32W T8	

5 FIXTURE SCHEDULE



4 PEDESTAL RECEPTACLE DETAIL

SCALE: NONE

GENERAL NOTES:

- ALL WALL MOUNTED RECEPTACLE CONDUITS TO BE CONCEALED IN CONCRETE BLOCK WALL
- FOR SECURITY SYSTEM, ALL 3/4" CONDUIT WITH PULL WIRE, JUNCTION BOXES FOR EACH DOOR AND INDIVIDUAL WINDOW FRAMES TO BE CONCEALED IN CONCRETE BLOCK WALL
- FOR THE CONCESSION, REQUIRED LIGHTING INTENSITY OF 50 FOOTCANDLES MINIMUM ACHIEVED WITH REVISED LIGHTING LAYOUT OF F1 FIXTURE (9 TOTAL)

SHEET NOTES:

- MOUNT UNDERSIDE OF METAL ROOF DECK AT 12'-0" AFF
- SEE MECHANICAL DRAWING FOR INSTALLATION REQUIREMENTS THERMOSTAT AND ADDITIONAL NOTES. FOR WIRING, ROUTE 1/2" C, 3 #12 + #12 GND
- KAIC RATING FOR THE PANEL BOARD SHALL BE CONFIRMED WITH PG&E PRIOR TO PURCHASE
- JUNCTION BOX IN CMU WALL FOR WINDOW BREAK ALARM
- ABOVE DOOR JUNCTION BOX FOR SECURITY DOOR CONTACT

